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# Coding Boot Camp



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# Session : Core03

What If? Selection Structures for Conditional Execution





# About Lilané le Grange



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- Teacher at Rand Park High School in Johannesburg, South Africa
- Studied BSc Mathematics and Computer Science
- Author of Dandel10n Delphi Books
- Teaching programming is my job, passion and hobby
- Motto: Flower where you fall!
- Love all of Africa especially the bushveld



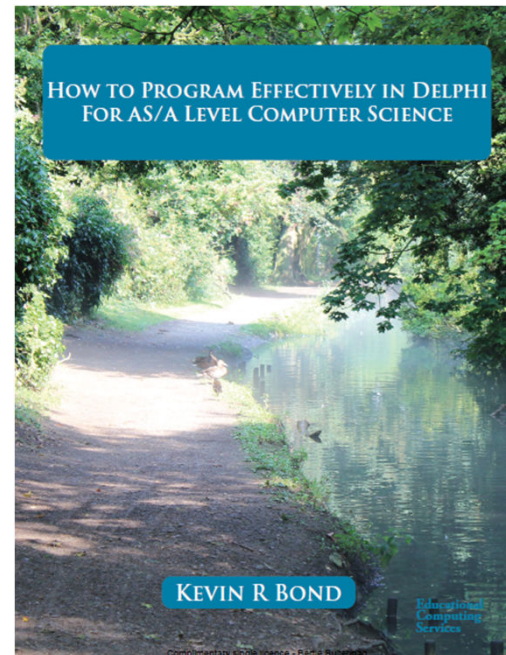
# Session outline



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- If-Statements
- Operators used in conditions
- Nested If-Statements
- Case Statements

Textbook reference chapters



Chapters 3 to 5 and 7 & 8





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Operator	Meaning	Example	Outcome
=	Equal To	6 = 6	True
<	Less Than	4 < 7	True
<=	Less Than Or Equal To	7 <= 3	False
>	Greater Than	34 > 12	True
>=	Greater Than Or Equal To	23 >= 23	True
<>	Not Equal To	6 <> 6	False

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```
If No1 > No2
  Then
    If No1 > No3
      Then Largest ← No1
      Else Largest ← No3
    EndIf
  Else
    If No2 > No3
      Then Largest ← No2
      Else Largest ← No3
    EndIf
  EndIf
```

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Height	Outcome
$> 193$ cm	Too tall
$\geq 163$ cm but $\leq 193$ cm	Pilot
$\geq 149$ cm but $< 163$ cm	Astronaut
$< 149$ cm	Too short

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Operator	Meaning	Example (Pascal)	Outcome
NOT	Evaluates to true, if operand false; Evaluates to false if operand is true	NOT True	False
AND	Evaluates to true if both operands are true otherwise evaluates to false	True AND True	True
OR	Evaluates to true if at least one operand is true otherwise false	True OR False	True
XOR	Evaluates to true if one and only one of the operands is true. Evaluates to false if both operands are true or if both operands are false.	True XOR True	False

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# Ordinal Data Types

"An ordinal data type is one that consists of an ORDERED set of things in which each member has a single value only."

Examples:

- Integer
- Char
- Boolean

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# Dandel10n Delphi

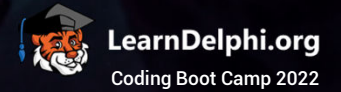
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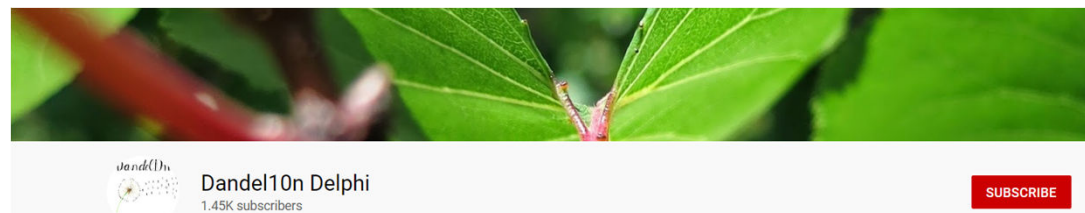
# Resources



<https://www.youtube.com/c/DelphiSchoolsDelphiProgrammingTutorials>



<https://www.youtube.com/channel/UCPQG0dcSGvOP20NLcjnYTPQ>



<https://www.youtube.com/channel/UCITMwGlsiKgY5Z-F5ZaCH4w/videos>





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# Thank you!



Get the code:  
[github.com/Embarcadero/CodingBootCamp2022](https://github.com/Embarcadero/CodingBootCamp2022)

